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EXAMINER

FISCHER, JUSTIN R

ART UNIT	PAPER NUMBER
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1733

DATE MAILED: 06/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/055,966	SMITH ET AL.	
	Examiner	Art Unit	
	Justin R Fischer	1733	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 April 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 4-45 is/are pending in the application.
- 4a) Of the above claim(s) 3 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 4-45 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 January 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Newly submitted claim 3 is directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: claim 3 is an independent claim that is directed to a vehicle tire having an outer surface displaying a photographic or digital image on the tire outer surface; on the other hand, independent claim 1 (originally presented) is directed to a vehicle tire in which a non-repeating colored pattern is present over at least 25% of the tire outer surface. It is clear that claim 1 does not require a photographic or digital image and claim 3 does not require the claimed extent of the pattern (at least 25%) and for that matter, does not even require a non-repeating colored pattern.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claim 3 is withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 2, 4-6, 8, 10, 13-19, 21-24, 27, 28, 30-36, and 38-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sievi-Korte (US 2002/0066507, newly

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cited). Sievi-Korte describes a vehicle tire construction in which at least a part of the tire is formed of a material that changes color with temperature, wherein said material may occur as a suitable pattern, such as the manufacturer's logo, letters, figures, or stripes, on the tire surface. The reference goes on to describe a preferred embodiment in which at least one part of the sidewall, at least one part of the tread wing, or both of said parts are formed of the above noted color material (Page 1, Paragraphs 10 and 11). While the reference fails to expressly suggest that the colored pattern is existent over at least 25% of the tire outer surface, one of ordinary skill in the art at the time of the invention would have found such a design obvious in view of the preferred embodiment noted above (one would have recognized the combination of sidewall and tread wing area to constitute at least 25% of tire outer surface) and furthermore, in view of the general teaching of Sievi-Korte that "it is obvious to those skilled in the art that the position of this material can be freely selected" (Page 1, Paragraph 10). Also, the degree to which the colored material covers the tire outer surface represents an aesthetic characteristic that does not contribute to the mechanical function of the tire. As such, one of ordinary skill in the art at the time of the invention would have found it obvious to include the colored material of Sievi-Korte over a region that is equal to or greater than 25% of the tire outer surface.

With respect to claim 2, the claim does not further define the structure of the claimed tire- the claim is directed to the method of selecting and matching the color of the tire rubber to a component of the vehicle. Furthermore, one of ordinary skill in the art at the time of the invention would have found it obvious to select any color

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depending on the desired characteristics, whether it be contrasting, coordinating, or the same, it being emphasized that the respective colors of the tire and the vehicle do not contribute to the mechanical function of the tire.

Regarding claims 4 and 5, the colored material can vary from one color to another or from colorless to a specific color (Page 1, Paragraph 8). One would recognize this description as describing materials that are non-black and non-white.

With respect to claims 6, 10, 13-19, as noted above, the colored material can be in the form of a logo, lettering, stripes, etc.. These patterns are being viewed as a single, non-black pattern. It is particularly noted that one of ordinary skill in the art at the time of the invention would have readily appreciated a design in which the colored material is raised since such an arrangement is extensively used in the manufacture of tires incorporating colored indicia or designs in the sidewall region.

Regarding claim 8, the tread composition would be expected to contain carbon black as is extremely well known and conventional in the tire industry.

With respect to claims 21, 23, and 42, the colored material changes color in response to an increase and/or decrease in temperature and thus necessarily changes color with time.

As to claims 22 and 24, the pigments of Sievi-Korte change color with time/wear and temperature and are reversible.

Regarding claims 27 and 28, the colored pattern does not form the entire sidewall, such that at least a portion of the sidewall would be formed of a carbon black

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containing composition (same as tread). In this same regard, the colored portion that is existent in the sidewall region is a different color than the tread.

With respect to claims 30-34, the tire construction defined by Sievi-Korte is used as a vehicle tire and thus is necessarily mounted on a rim (defines a wheel assembly). With specific regard to claims 31-34, the claims do not further define the structure of the claimed tire article or wheel assembly- the claims are directed to the method of selecting and matching the color of the tire rubber to an additional tire component. It is emphasized that the selection of a color represents an aesthetic property that does not significantly contribute to the mechanical function of the tire.

Regarding claims 35 and 36, the tire construction of Sievi-Korte provides a substantially uniform colored surface, wherein the color is uniform throughout its depth.

With respect to claim 38, the patterned color surface of Sievi-Korte is existent over the circumferential and radial axis of the tire.

Regarding claims 39-41, the colored pattern of Sievi-Korte includes a thermochrome pigment (additive). It is further noted that the language of claim 40 requires that the coloring agent "is capable of forming a non-black and non-white color that is fully developed throughout the depth of the tire composition". It is clear that the pigment of Sievi-Korte is capable of being included in each of the tire components if such a limitation is intended.

4. Claims 1, 2, 4-20, 30-36, and 38-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nichols (US 2,874,746, newly cited). As best depicted in Figure 1, Nichols is directed to a pneumatic tire construction in which a significant portion of the

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sidewall outer surface is formed of a colored rubber composition 17. This colored region is a single stripe that is circumferentially continuous over the extent of the tire and is being viewed as a "single, non-repeating colored pattern". While Nichols fails to expressly describe the colored pattern as being existent over at least 25% of the tire outer surface, it is readily apparent from Figure 1 that the colored region occupies a substantial amount of the sidewall region, which in combination with the tread defines the entire tire outer surface. It is noted that Nichols describes the extent of the colored pattern as being "from the edge of the tread downwardly to a point of termination below the horizontal mid-plane of the tire cross-section" (Column 3, Lines 5-15). Furthermore, one of ordinary skill in the art at the time of the invention would have found it obvious to extend the colored pattern depending on the desired extent of the pattern and thus the intended effect of the pattern. It is emphasized that the degree to which the tire outer surface is formed of a colored pattern represents an aesthetic feature that does not significantly contribute to the mechanical function of the tire. As such, one of ordinary skill in the art at the time of the invention would have found it obvious to form at least 25% of the tire outer surface of Nichols with a colored pattern.

With respect to claim 2, the claim does not further define the structure of the claimed tire- the claim is directed to the method of selecting and matching the color of the tire rubber to a component of the vehicle. Furthermore, one of ordinary skill in the art at the time of the invention would have found it obvious to select any color depending on the desired characteristics, whether it be contrasting, coordinating, or the

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same, it being emphasized that the respective colors of the tire and the vehicle do not contribute to the mechanical function of the tire.

Regarding claims 4, 5, and 39-41, the colored pattern of Nichols can be formed of any suitable organic or inorganic pigment (examples include brown and blue in Column 5, Lines 15-20). It is further noted that the language of claim 40 requires that the coloring agent "is capable of forming a non-black and non-white color that is fully developed throughout the depth of the tire composition". It is clear that the pigment of Nichols is capable of being included in each of the tire components if such a limitation is intended.

With respect to claim 6, the colored pattern of Nichols is a single stripe that extends over more than half of the sidewall region.

As to claim 7, Nichols suggests that the cover strip 40 (Figure 5) can be formed of a non-black color that is darker than the color of the colored pattern (Column 7, Lines 20-30).

Regarding claim 8, the tread of Nichols includes carbon black (Column 4, Lines 40-50).

With respect to claim 9, the lower sidewall region of Nichols is formed of a white rubber composition 19.

Regarding claim 10 and 11, the cover strip is defined as being a darker color than the colored region 41 in order to provide a good appearance. This arrangement is seen to constitute a display of art since it represents a decorative assembly.

Additionally, if the claim intends to require a separate indicia or design, one of ordinary

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skill in the art at the time of the invention would have found it obvious to include a wide variety of well known elements, such as the manufacturer's name, lettering, logos, tire information, etc., each of which is seen to constitute "art".

With respect to claims 12-19, as noted above, the inclusion of a wide variety of indicia or designs would have been well within the purview of one of ordinary skill in the art at the time of the invention. These elements are extensively provided on tire sidewalls for a variety of reasons, including aesthetic purposes and information purposes. It is additionally noted that raised indicia or designs represent a common and conventional means of including these elements into tire sidewalls.

Regarding claim 20, the tire outer surface of Nichols is designed to remain the same throughout the life of the tire.

With respect to claims 30-34, the tire construction defined by Nichols is used in as a vehicle tire and thus is necessarily mounted on a rim (defines a wheel assembly). With specific regard to claims 31-34, the claims do not further define the structure of the claimed tire article or wheel assembly- the claims are directed to the method of selecting and matching the color of the tire rubber to an additional tire component. It is emphasized that the selection of a color represents an aesthetic property that does not significantly contribute to the mechanical function of the tire.

Regarding claims 35 and 36, the colored region of Nichols is substantially uniform and constant through the depth of the region.

With respect to claim 38, the colored region of Nichols is existent over the circumferential and radial direction of the tire.

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5. Claims 1, 2, 4-8, 10-21, 22, 24, 26, 28, 30-36, 38-41, 43-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rogal (DE 19613801, of record). Rogal is directed to a pneumatic tire construction in which the side surface (sidewalls) and/or the tread are colored with at least one pigment. While the reference fails to expressly define the extent of the colored region as equal to or greater than 25% of the tire outer surface, one of ordinary skill in the art at the time of the invention would have found such an arrangement obvious in view of the general description of Rogal noted above. In particular, the tire outer surface is formed of the sidewalls and the tread and Rogal states that both the tread and sidewalls or simply one of the components can include a pigment to define colored regions. In view of this language, one of ordinary skill in the art at the time of the invention would have expected and readily appreciated a tire construction in which at least 25% of the tire outer surface is formed of a colored pattern. Also, the embodiments in which only the tread and the sidewall are colored would be expected to result in a construction having more than 25% of the tire outer surface as a colored pattern.

With respect to claim 2, the claim does not further define the structure of the claimed tire- the claim is directed to the method of selecting and matching the color of the tire rubber to a component of the vehicle. Furthermore, one of ordinary skill in the art at the time of the invention would have found it obvious to select any color depending on the desired characteristics, whether it be contrasting, coordinating, or the same, it being emphasized that the respective colors of the tire and the vehicle do not contribute to the mechanical function of the tire.

As to claims 4-6, Rogal suggests a wide variety of pigments, including alkali blue. In the embodiments where the tread or sidewall is colored, this design is seen to constitute a "single, non-black colored surface".

With respect to claim 7, the assembly of Rogal can include different color strips.

Regarding claim 8, one of ordinary skill in the art at the time of the invention would have expected the sidewall and tread to include carbon black when they do not form a colored pattern.

With respect to claims 10 and 11, the colored layer of Rogal is applied as a motif or a pattern- this is seen to constitute "art". Also, certain patterns (art) are only displayed when the vehicle reaches a certain speed (different colors are suggested).

With respect to claims 12-19, the inclusion of a wide variety of indicia or designs would have been well within the purview of one of ordinary skill in the art at the time of the invention. These elements are extensively provided on tire sidewalls for a variety of reasons, including aesthetic purposes and information purposes. It is additionally noted that raised indicia or designs represent a common and conventional means of including these elements into tire sidewalls.

Regarding claims 20 and 21, the colored regions can be designed such that they are a single color (constant over time) or they can be formed with pigments that change color over time (e.g. fluorescent pigments).

As to claims 22 and 24, Rogal describes the inclusion of optical pigments that change color over time and with increasing speed. This is seen to constitute a change

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in color with respect to wear since an increase in wear is observed over time and with increasing vehicle speed.

With respect to claim 26, the inclusion of fluorescent or phosphorescent pigments results in a colored pattern or region that lights or brightens the tire under certain conditions.

Regarding claim 28, the sidewall can be colored while the tread remains black and vice versa.

With respect to claims 30-34, the tire construction defined by Rogal is used in as a vehicle tire and thus is necessarily mounted on a rim (defines a wheel assembly).

With specific regard to claims 31-34, the claims do not further define the structure of the claimed tire article or wheel assembly- the claims are directed to the method of selecting and matching the color of the tire rubber to an additional tire component. It is emphasized that the selection of a color represents an aesthetic property that does not significantly contribute to the mechanical function of the tire.

Regarding claims 35 and 36, the colored region of Rogal is substantially uniform and constant through the depth of the region.

With respect to claim 38, the colored region of Rogal is existent over the circumferential and radial direction of the tire.

Regarding claims 39-41, Rogal described the colored region/pattern as including at least one pigment. It is further noted that the language of claim 40 requires that the coloring agent "is capable of forming a non-black and non-white color that is fully developed throughout the depth of the tire composition". It is clear that the pigment of

Rogal is capable of being included in each of the tire components if such a limitation is intended.

With respect to claims 43-45, the colored pattern of Rogal changes as a function of the vehicle speed and thus necessarily changes color as a function of pressure (increase in vehicle speed accompanied by increase in pressure).

6. Claims 1, 2, 4, 5-9, 21, 22, 25, 28-35, 37, 39, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Creasey (US 3,814,160, of record). As best depicted in Figure 1, Creasey is directed to a tire construction in which the outer-tread layer or the under-tread layer can be colored, such that the reference is directed to an embodiment in which the outer tread surface can be colored (e.g. yellow) (Column 2, Lines 1-20). While the reference fails to expressly define the colored region occupying at least 25% of the tire outer surface, one of ordinary skill in the art at the time of the invention would have found such a range obvious in view of the fact that the tire outer surface is defined by the tread and the sidewalls- in one of the embodiments noted above, the entire tread surface is formed of a colored rubber composition (e.g. yellow). Being that the tread surface area is generally greater than the sidewall surface area, one of ordinary skill in the art at the time of the invention would have expected this embodiment to have more than 25% of the tire outer surface covered with the above noted colored region/pattern (stripe). It is further noted that the specific area of the tread and sidewall is a function of the type of tire. Lastly, it is emphasized that the degree to which the tire outer surface is formed of a colored pattern represents an

aesthetic feature that does not significantly contribute to the mechanical function of the tire.

As to claim 2, the claim does not further define the structure of the claimed tire- the claim is directed to the method of selecting and matching the color of the tire rubber to a component of the vehicle. Furthermore, one of ordinary skill in the art at the time of the invention would have found it obvious to select any color depending on the desired characteristics, whether it be contrasting, coordinating, or the same, it being emphasized that the respective colors of the tire and the vehicle do not contribute to the mechanical function of the tire.

Regarding claim 6, during normal running and wear, the outer surface is a single colored surface.

With respect to claims 7 and 9, during uneven wear, the tire surface is formed of multiple colors. In particular, the color of the outer tread surface is exposed and the color of the under tread layer is exposed in only the regions where tread wear (uneven) is experienced. Furthermore, Creasey suggests that the colored outer tire surface can be white. Also, a common white sidewall could be included in the tire design of Creasey- as noted above, the particular selection of colored regions does not appear to significantly impact the structure and thus function of the tire.

Regarding claim 8, the tire sidewall of Creasey is formed of the conventional black tire rubber composition.

As to claims 21, 22, and 25, the colored surface of Creasey changes with time (the under tread layer becomes exposed as a result of wear). In this instance, the change of color is not reversible.

With respect to claim 28, the outer sidewall surface is black while the outer tread surface is lightly colored as described above.

As to claim 29, the outer tread surface of Creasey will be mutli-colored as a result of uneven tread wear.

Regarding claims 30-34, the tire construction defined by Creasey is used in an automobile tire and thus is necessarily mounted on a rim (defines a wheel assembly). With specific regard to claims 31-34, the claims do not further define the structure of the claimed tire article or wheel assembly- the claims are directed to the method of selecting and matching the color of the tire rubber to an additional tire component.

With respect to claim 35, the outer tread surface of Creasey has a substantially uniform colored surface.

Regarding claim 37, the tire surface of Creasy can be viewed as a non-uniform colored surface since during tread wear the colored region will not be continuous over the extent of the tread surface.

As to claim 39, Creasey describes the inclusion of a suitable pigment to affect the desired color (Column 2, Lines 1-20).

Regarding claim 43, the color of the outer tread surface of Creasey is affected by an increase in pressure- the higher the pressure, the more the tread will wear and the quicker the color of the under-tread layer will be exposed.

Response to Arguments

7. Applicant's arguments with respect to claims 1-45 have been considered but are moot in view of the new ground(s) of rejection. The rejections with Smith and Peterson have been withdrawn in light of applicant's amendment to require a non-repeating colored pattern. However, the rejection with Creasey and the additional rejections presented above are applicable.

Regarding Creasey, applicant contends that the reference does not disclose an outer tread layer by itself capable of displaying a colored pattern. The examiner disagrees with this argument. Creasey (Column 2, Lines 1-19) specifically states that the outer tread layer can be formed of either a black rubber composition or a light colored rubber composition (e.g. yellow). Thus, if the entire outer tread surface is formed as a colored layer, a colored pattern (large stripe having a width equal to the tread width) would be existent over a significant portion of the tire outer surface, which is defined as the combined areas of the tread and the sidewall. While the specific areas of the tread and sidewall are dependent on the type of tire, one of ordinary skill in the art at the time of the invention would have expected the tread area to be at least 25% of the total tire outer surface as set forth in the rejection above. It is emphasized that the outer layer of Creasey is not required to wear down to expose the colored under layer as proposed by applicant- the outer tread layer can in fact be the colored layer.

As to the color coordination between the tire outer surface and an additional component of the vehicle, the court has found that matters relating to ornamentation only which have no mechanical function cannot be relied upon to patentably distinguish

the claimed invention from the prior art (*In re Seid*, 161 F.2d 229, 73 USPQ 431 (CCPA 1947)). In particular, the selection of a particular color for the tire outer surface would be dependent on the desired aesthetic appearance (e.g. contrasting, communicating, or the same). The critical aspect is that the references used in the rejections above positively recognize the formation of a large colored region/pattern (non-black and non-white) on the tire outer surface.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Cross (US Design 388,041) teaches a tire construction in which a significant portion of the sidewall outer surface is formed as a gold region.

Taylor (US 1,895,088) is directed to a tire construction in which the sidewalls can be formed as white sidewalls or they can be colored (with a dye) if the customer prefers a colored tire to match the color of his car or to contrast with it (Page 3, Lines 52-59).

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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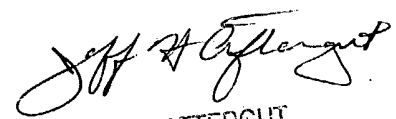
shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Justin R Fischer** whose telephone number is **(571) 272-1215**. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Justin Fischer
June 17, 2004


JEFF H. AFTERGUT
PRIMARY EXAMINER
GROUP 1300